

## 36-2712: Anti-TACSTD2 / TROP2 (Epithelial Marker) Monoclonal Antibody(Clone: TACSTD2/2152)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	TACSTD2/2152
<b>Application :</b>	IF, WB, IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	TACSTD2
<b>Gene ID :</b>	4070
<b>Uniprot ID :</b>	P09758
<b>Alternative Name :</b>	Cell surface glycoprotein Trop-2; Membrane Component Chromosome 1, Surface Marker 1 (M1S1); Pancreatic Carcinoma Marker Protein GA733-1; TROP2; Tumor-Associated Calcium Signal Transducer 2 (TACSTD2)
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant fragment of human TACSTD2 protein (around aa 31-274) (exact sequence is proprietary)

### Description

TACSTD2 is a cell surface glycoprotein receptor. It is a single pass type I membrane protein containing one thyroglobulin type-1 domain, an epidermal growth factor-like repeat, a phosphatidylinositol binding site and tyrosine phosphorylation sites near the C-terminus. It plays a role in transducing intracellular calcium signals. It is expressed in trophoblast cells, cornea and multi-stratified epithelia. It is also highly expressed in several types of tumors and is involved in regulating the growth of carcinoma cells.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),

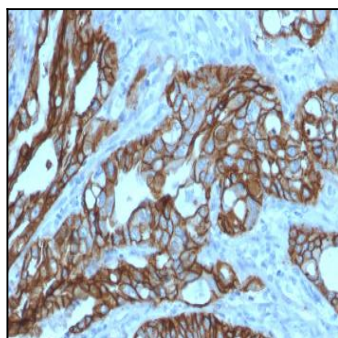


Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2152).

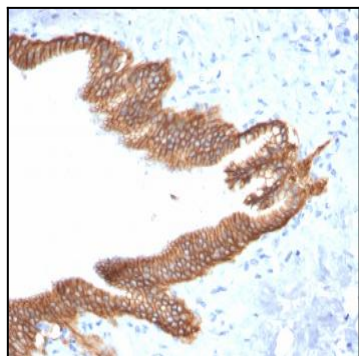


Fig. 2: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2152).

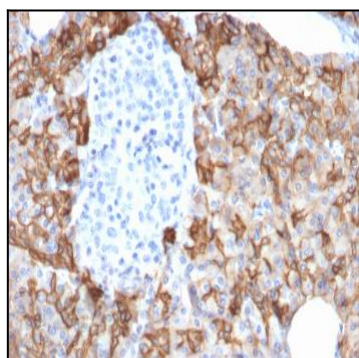


Fig. 3: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2152).

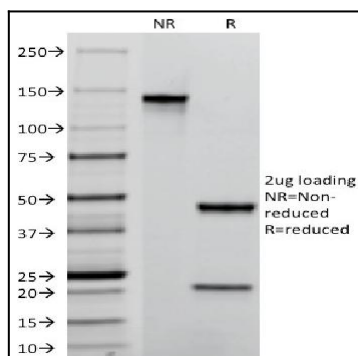


Fig. 4: SDS-PAGE Analysis Purified TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2152). Confirmation of Integrity and Purity of Antibody.

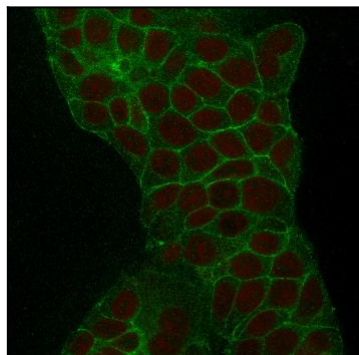


Fig. 5: Confocal Immunofluorescence of MCF-7 cells TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2152). labeled with CF488 (Green); Reddot is used to label the nuclei.

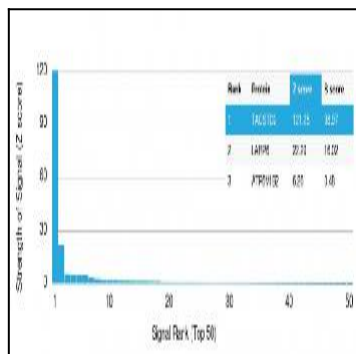


Fig. 6: Analysis of Protein Array containing >19,000 full-length human proteins using TACSTD2 Mouse Monoclonal Antibody (TACSTD2/2152) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.